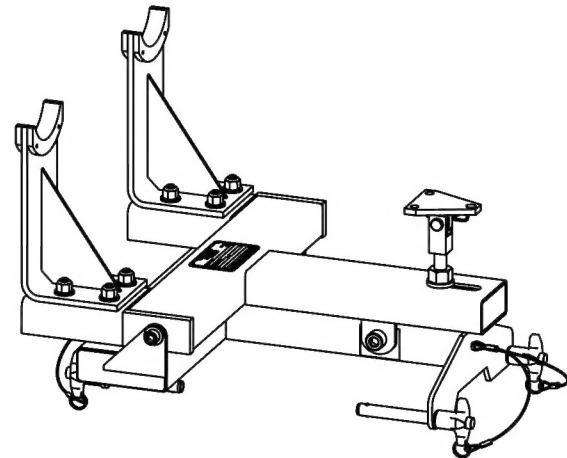
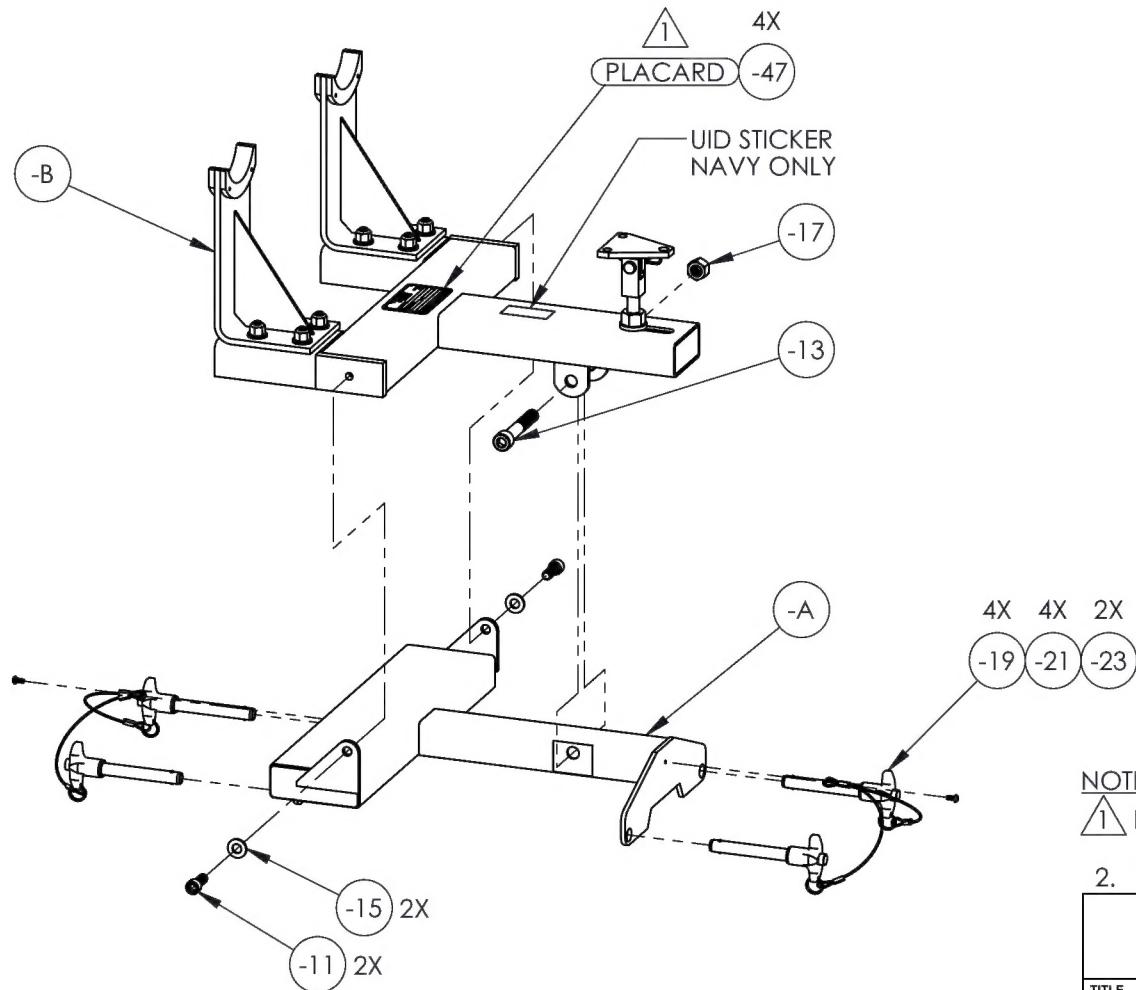


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REV	ECR	REVISIONS	DESCRIPTION	DATE	INITIAL	APPROVED
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NOTES:

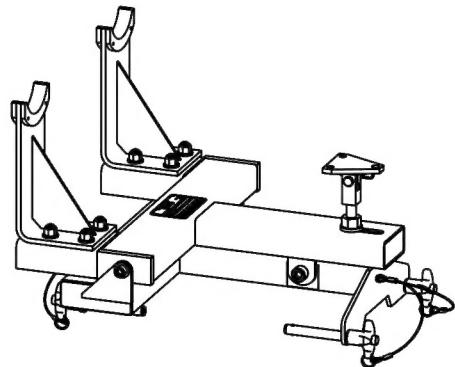
1. RB41009 RED BARN PLACARD FOR NAVY ONLY,
RB41011 DART PLACARD FOR ALL OTHERS.
2. MADE TO FIT RBT18640 JACKING ASSEMBLY.



TITLE
ENGINE REMOVAL ADAPTER

DWG NO.	RBT18640-101	REV 5
MAT'L	DRAWN BY: PERRITT	APPROVED <i>D Weil</i>
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		
.XXX ± .005	FRACTIONS ± 1/8	
.XX ± .01	ANGLES ± 5°	
.X ± .1		
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	SPEC	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING		FIRE SCOUT
SCALE 1:8	DATE 8/10/2007	SHEET 1 OF 11

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REVISIONS							
REV	ECR	DESCRIPTION			DATE	INITIAL	APPROVED
1		EXTENDED -5 BY .025, MOVED -1 PIN HOLES DOWN .063, DELETED TWO LANYARD SCREW HOLES AND CENTERD REMAINING TWO, ADDED CUT OUT FOR FUTURE TILT ADJUSTMENT OPTION, SHORTENED -7 BY .075, ADDED 45° SIDE TO -3, CREATED -25, ADDED UPPER PORTION OF 269T3301 TO UNIT, AND -11 WAS Ø1/2X1/2 SHOULDER BOLTS. ELIMINATED WASHERS LANYARD SCREWS CHANGED FROM #6 TO #8.			10/11/2007	WP	DW
2		DELETED NOTE 1, ADDED NOTES 2 & 3, CH'D ALL BOM HARDWARE FROM PLAIN STEEL TO S.S. & ADDED P/N'S.			8/29/2011	RJC	-
3		CH'D -7 OVERALL LENGTH FROM 15.915 MIN AND ADDED TOLERANCE PER G.E.			12/2/2011	RJC	GE
3A		-A ADDED FINISH POWDER COAT WHITE, ADDED -15, -45, -1 CH'D DIMS WAS 4X 2.562 IS 2X 2.562, CH'D B/O INFO WAS 3/16 X 3 X 9-1/2 IS 3/16 X 3 X 9-5/8, -3 CH'D B/O INFO WAS 3/16 X 2-3/4 X 2-1/4 IS 3/16 X 2-7/8 X 2-1/4, -1, -3, -25 CH'D DIM WAS .19 IS (.19), -5 CH'D DIMS WAS .120 IS (.120), WAS 1.50 IS (1.50), WAS 2.00 IS (2.00), CH'D B/O INFO WAS .120 X 2 X 1-1/2 X 10-3/8 IS .120 X 2 X 1-1/2 X 10-1/2, -7 CH'D DIMS WAS .120 IS (.120), WAS 1.50 IS (1.50), WAS 4.00 IS (4.00), -25 CH'D B/O INFO WAS 3/16 X 2-1/4 X 4-1/2 IS 3/16 X 2-1/4 X 4-5/8.			6/4/2014	DPD	RJC
5	15-0348	UPDATED TO NEW STANDARDS. -27, -29, -31, -33, -35, -37, -39, -41 REMOVED DASH NUMBERS. -A DELETED DIM 1/32. CH'D DIMS WAS 8-9/16 IS (8.56), WAS 7-5/16 IS 2X 7.300±.015, WAS 1 IS (1.063), WAS 1-1/2 IS 1.56, -1 CH'D DIMS WAS 2X #8-32 UNC THRU IS 8-32 UNC .2B THRU ALL, WAS (.19) IS .19, WAS 2X 60° IS (2X 60°), WAS 2X 1.678 IS 2X 1.68, WAS 2X 2.111 IS 2X 2.11, -3 CH'D DIMS WAS .500 IS .50, WAS 1.813 IS 1.81, WAS (.19) IS .19, -5 CH'D DIMS WAS 10.400 IS 10.40, WAS 2X SKIM .040 IS (2X SKIM .040), WAS 2X .500 IS .500, WAS (.120) IS .12, WAS (1.50) IS 1.50, WAS (2.00) IS 2.00, -7 CH'D DIMS WAS 7.958 IS 7.96, WAS (1.50) IS 1.50, WAS (4.00) IS 4.00, WAS (.120) IS .12, WAS 8-32 UNC ONE SIDE IS 8-32 UNC .2B .V.13, -9 CH'D DIM WAS .10 (.12ga) IS .10 (.12ga), -25 CH'D DIMS WAS 45° IS 2X 45°, WAS (.21) IS (2X .21), WAS (.19) IS .19, -45 DELETED FROM BOM, -47 ADDED TO BOM.			3/21/2016	DPD	JAG

ASSY QTY	ASSY QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	PG.
X			-A	1	BOTTOM ADAPTER ASSEMBLY			3
1			-1		FRONT MOUNT	A709 GRADE 36		4
2			-3		SIDE TABS	A709 GRADE 36		5
1			-5		CENTER TUBE	STEEL TUBE		6
1			-7		REAR TUBE	STEEL TUBE		7
2			-9		END CAPS	A709 GRADE 36		8
8		B/O	-11	2	S.H.C SCREWS	S.S.	3/8-16 X 1 (MCMASTER-CARR #92196A624)	1 & 10
		B/O	-13	1	S.H.C. SCREW	S.S.	1/2-13 X 3-1/4 (92196A725)	1
8		B/O	-15	2	WASHER	S.S.	Ø3/8 (MCMASTER-CARR #96659A108)	1 & 10
		B/O	-17	1	NYLON INSERT LOCK NUT	S.S.	1/2-13 (MCMASTER-CARR #91831A137)	1
		B/O	-19	4	T-HANDLE QUICK RELEASE PINS	S.S.	Ø1/2 X 3 (ESSENTRA COMPONENTS #BLTS-140)	1
		B/O	-21	4	LANYARDS W/ NYLON COATING	S.S.	Ø1/16 X 8 (ESSENTRA COMPONENTS #FPC-210)	1
		B/O	-23	2	BUTTON H.C. SCREWS	S.S.	8-32 X 3/8 (MCMASTER-CARR #92949A192)	1
2			-25		REAR TABS	A709 GRADE 36		9
8		B/O	-43		NYLON INSERT NUTS	S.S.	3/8-16 (MCMASTER-CARR #91831A127)	10
		B/O	-47	4	#2 DRIVE SCREW	COATED STEEL	#2 X 1/8 (MCMASTER-CARR #90081A074)	1
X			-B	1	UPPER ADAPTER ASSEMBLY			10
1					CARRIAGE WELDMENT		269T3301-14	10
2					CRADLE ARM ASSEMBLY		269T3301-18	10
1					NUT PLATE WELDMENT		269T3301-21	10
1		B/O			CLEVIS PIN		269T3301-22	10
1		B/O			FLANGE NUT		269T3301-23	10
1		B/O			HAIR PIN		269T3301-24	10
1					STUD WELDMENT		269T3301-25	10
1					FRONT ENGINE MOUNT WELDMENT		269T3301-27	10
ASSY -B	ASSY -A	B/O		1	PLACARD	ALUMINUM	RB41009 RED BARN OR RB41011 DART; SEE NOTE SHEET 1	1

NOTES:

- 1. UNIT IS TO BE WEIGHT TESTED TO 400 LBS.
- 2. THIS IS THE GENERIC PLATE SPEC FOR WHAT IS COMMONLY REFERRED TO AS 1018.
- 3. MATERIAL MAY VARY DEPENDING ON COMMERCIAL AVAILABILITY.

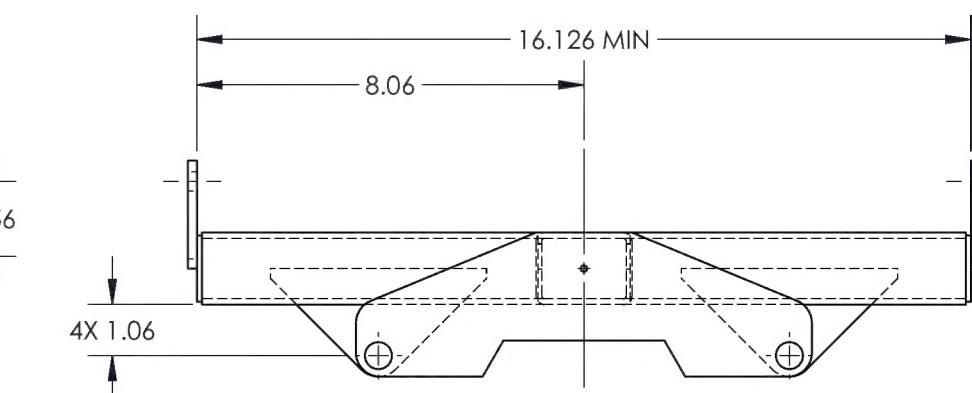
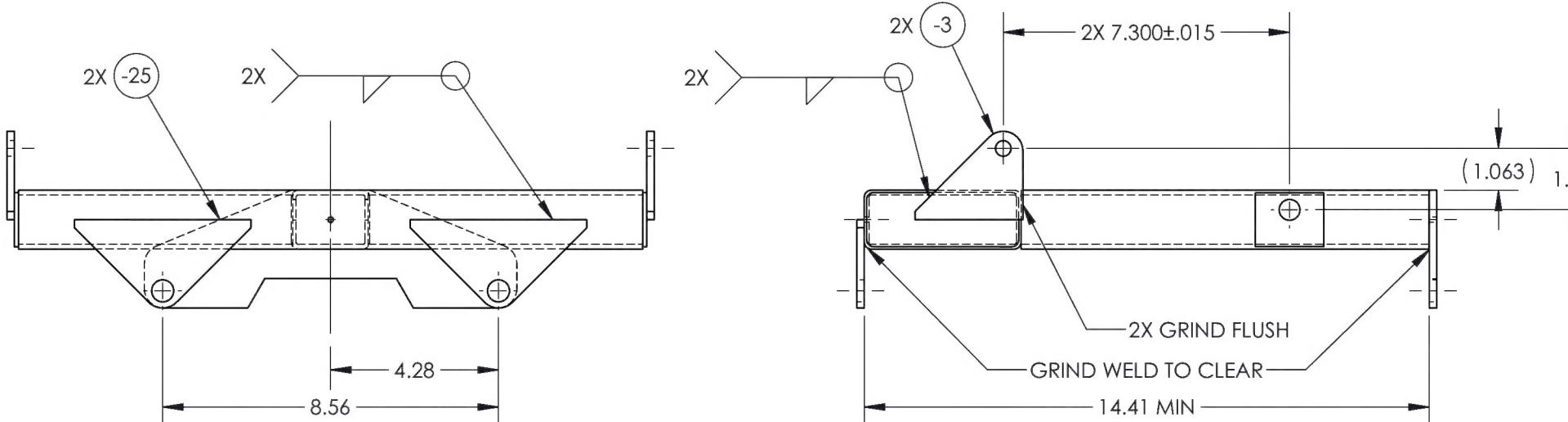
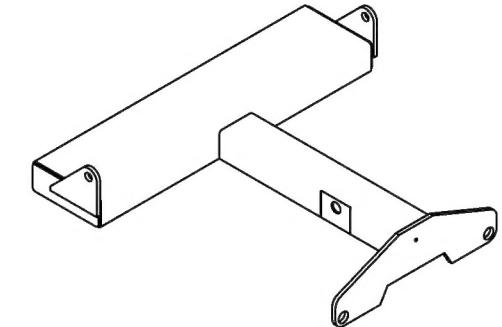
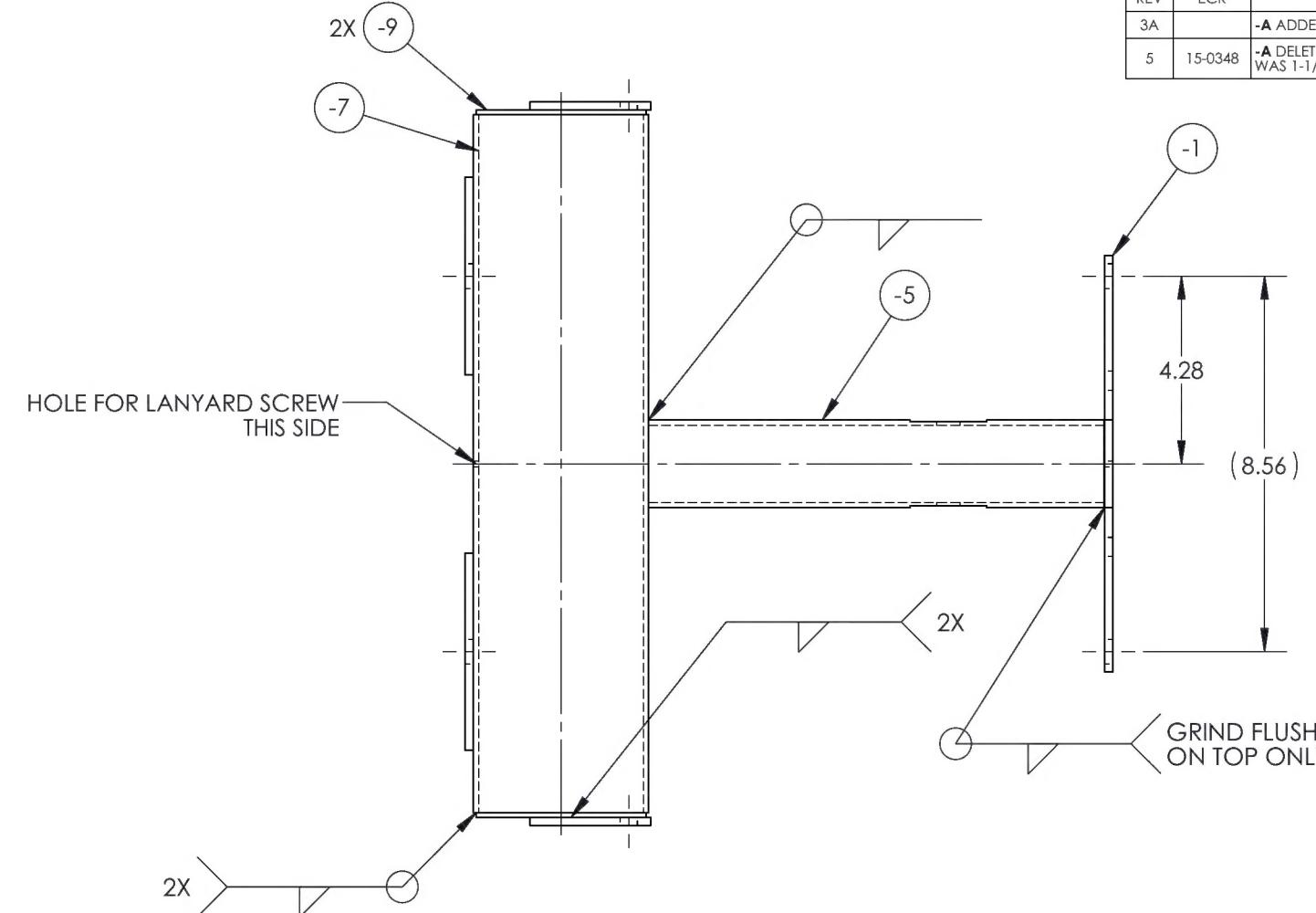


TITLE ENGINE REMOVAL ADAPTER

DWG NO.	RBT18640-101	REV
		5
MAT'L	DRAWN BY: PERRITT	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED	
.XXX ± .005	FRACTIONS ± 1/8	
XX ± .01	ANGLES ± 5°	
X ± .1	SPEC	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	FIRE SCOUT	
SCALE 1:10	DATE 8/10/2007	SHEET 2 OF 11

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REV			ECR		DESCRIPTION		DATE	INITIAL	APPROVED
3A					-A	ADDED FINISH POWDER COAT WHITE.	6/4/2014	DPD	RJC
5	15-0348				-A	DELETED DIM 1/32. CH'D DIMS WAS 8-9/16 IS (8.56), WAS 7-5/16 IS 2X 7.300±.015, WAS 1 IS (1.063), WAS 1-1/2 IS 1.56.	3/21/2016	DPD	JAG

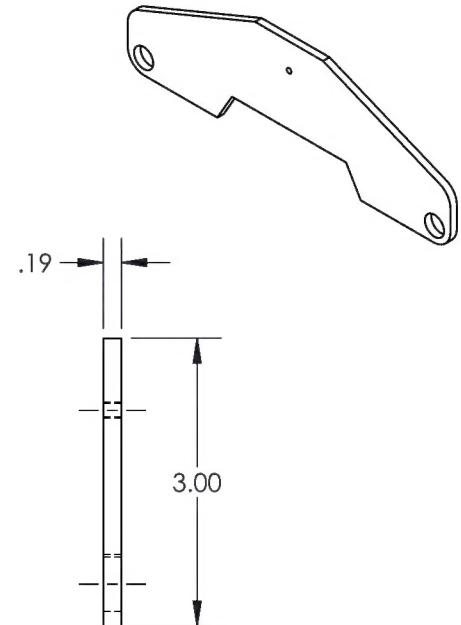
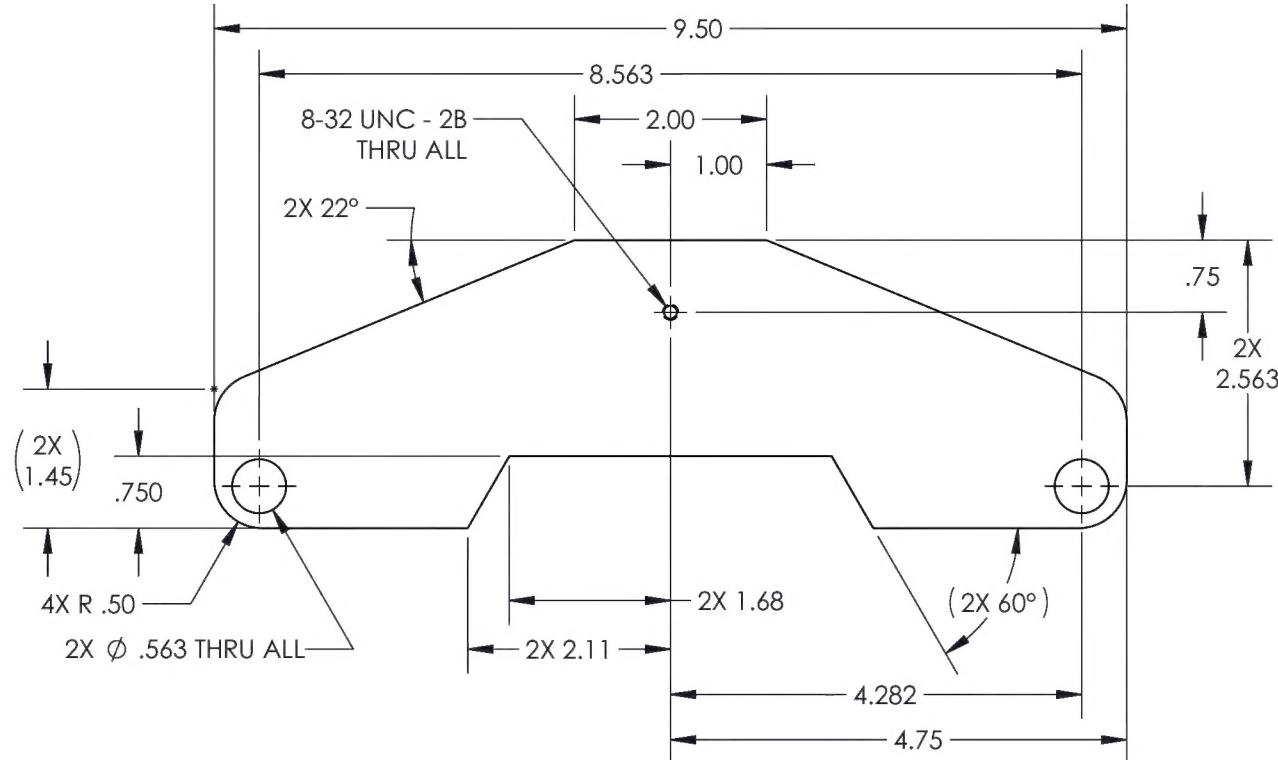


(A)
BOTTOM ADAPTER ASSEMBLY

DART AEROSPACE	
TITLE	ENGINE REMOVAL ADAPTER
DWG NO.	RBT18640-101-A
REV	5
MAT'L	DRAWN BY: PERRITT
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
.XXX ± .010 FRACTIONS ± 1/8	
.XX ± .03 ANGLES ± 1°	
.X ± .1	
.015R	
1. BREAK ALL SHARP EDGES .015 x 45°	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
APPROVED <i>D. Weil</i>	
HEAT TREAT	
FINISH POWDER COAT WHITE	
SPEC	
USED ON MODEL	
FIRE SCOUT	
SCALE	1:4
DATE	8/10/2007
SHEET	3 OF 11

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
3A		-1 CH'D DIMS WAS 4X 2.562 IS 2X 2.562, WAS .19 IS (.19).	6/4/2014	DPD	RJC
5	15-0348	-1 CH'D DIMS WAS 2X #8-32 UNC THRU IS 8-32 UNC - 2B THRU ALL, WAS (.19) IS .19, WAS 2X 60° IS (2X 60°), WAS 2X 1.678 IS 2X 1.68, WAS 2X 2.111 IS 2X 2.11.	3/21/2016	DPD	JAG



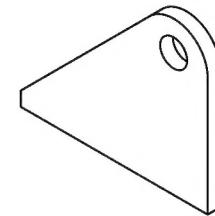
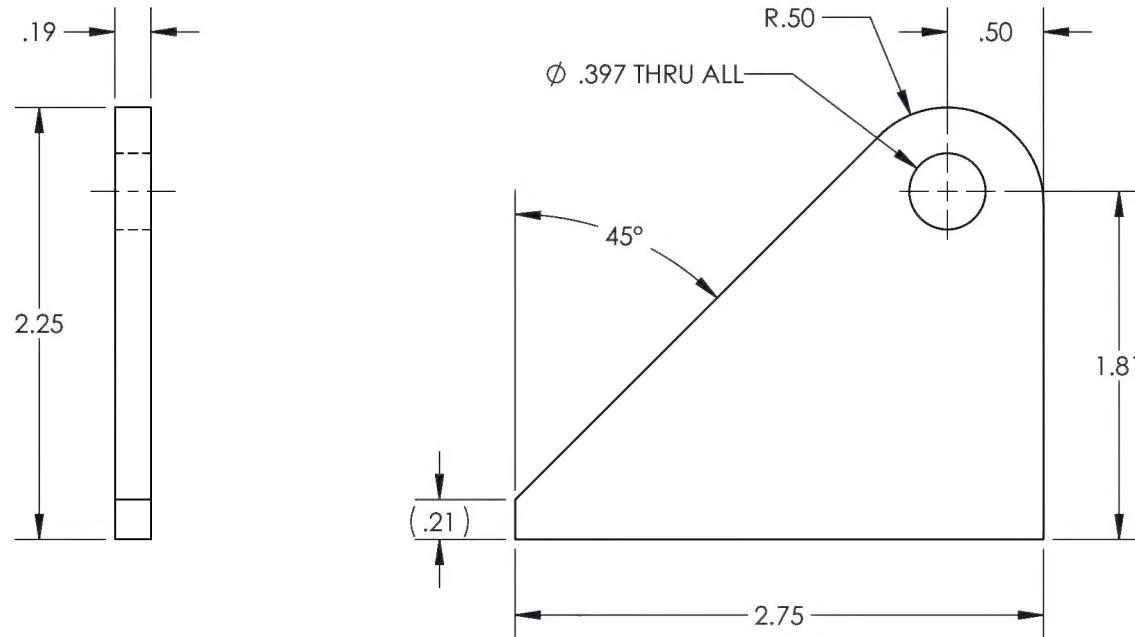
(-1)

FRONT MOUNT

DART AEROSPACE	
TITLE ENGINE REMOVAL ADAPTER	
DWG NO.	RBT18640-101-1
MAT'L	A709 GRADE 36
DRAWN BY:	PERRITT
APPROVED	D Weil
UNLESS OTHERWISE SPECIFIED	
DIMENSIONS ARE IN INCHES	
.XXX ± .005	FRACTIONS ± 1/8
.XX ± .01	ANGLES ± 5°
.X ± .1	SEE -A WELDMENT
1. BREAK ALL SHARP EDGES .015 x 45°	
OR .015R	
2. DIMENSIONAL LIMITS APPLY AFTER	
PLATING	
USED ON MODEL	
FIRE SCOUT	
SCALE	1:2
DATE	8/10/2007
SHEET 4 OF 11	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
3A		-3 CH'D DIM WAS .19 IS (.19).	6/4/2014	DPD	RJC
5	15-0348	-3 CH'D DIMS WAS .500 IS .50, WAS 1.813 IS 1.81, WAS (.19) IS .19.	3/21/2016	DPD	JAG



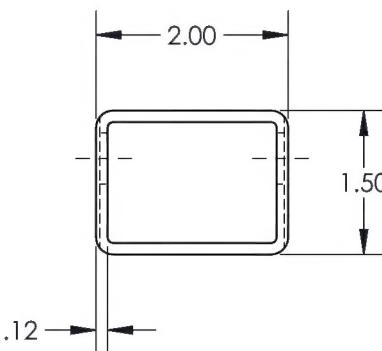
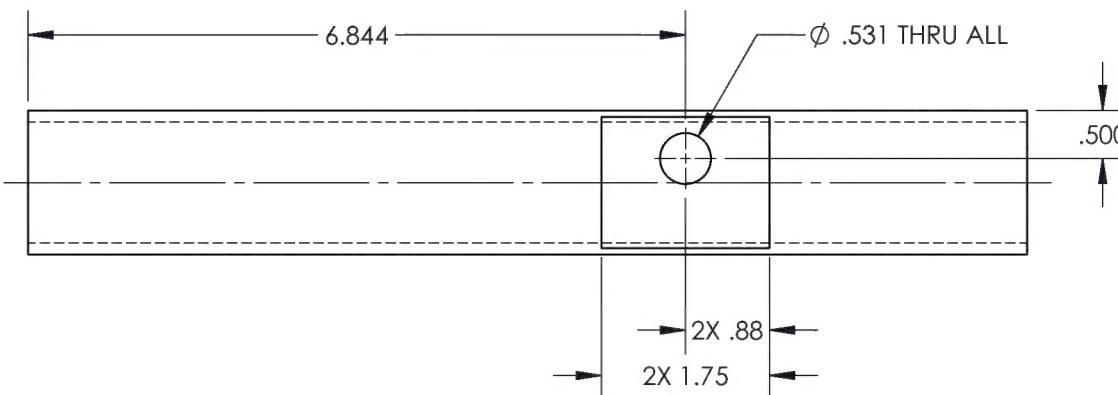
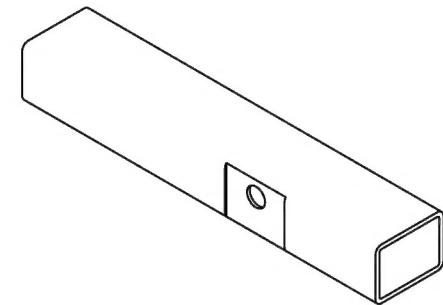
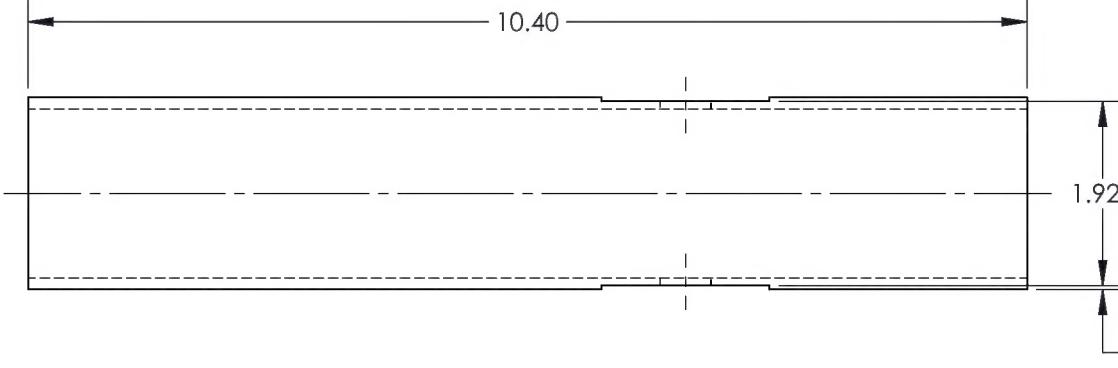
(-3)

SIDE TABS

DART AEROSPACE	
TITLE	
ENGINE REMOVAL ADAPTER	
DWG NO.	RBT18640-101-3
MAT'L	A709 GRADE 36
DRAWN BY:	PERRITT
APPROVED	D Weil
UNLESS OTHERWISE SPECIFIED	DIMENSIONS ARE IN INCHES
.XXX ± .005	FRACTIONS ± 1/8
.XX ± .01	ANGLES ± 5°
X ± .1	SEE -A WELDMENT
1. BREAK ALL SHARP EDGES .015 x 45°	SPEC
OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER	FIRE SCOUT
PLATING	
SCALE	1:1
DATE	8/10/2007
SHEET 5 OF 11	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
3A		-5 CH'D DIMS WAS .120 IS (.120), WAS 1.50 IS (1.50), WAS 2.00 IS (2.00).	6/4/2014	DPD	RJC
5	15-0348	-5 CH'D DIMS WAS 10.400 IS 10.40, WAS 2X SKIM .040 IS (2X SKIM .040), WAS 2X .500 IS .500, WAS (.120) IS .12, WAS (1.50) IS 1.50, WAS (2.00) IS 2.00.	3/21/2016	DPD	JAG



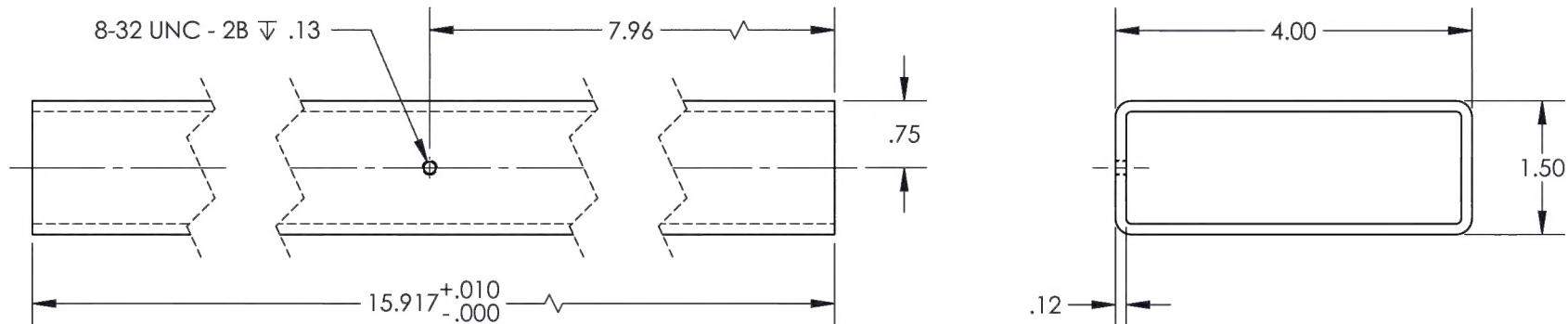
(-5)

CENTER TUBE

DART AEROSPACE			
TITLE			
ENGINE REMOVAL ADAPTER			
DWG NO.	RBT18640-101-5		
MAT'L	STEEL TUBE	DRAWN BY:	PERRITT
UNLESS OTHERWISE SPECIFIED		APPROVED	D Weil
DIMENSIONS ARE IN INCHES		HEAT	
.XXX ± .005	FRACTIONS ± 1/8	TREAT	
.XX ± .01	ANGLES ± 5°	FINISH	SEE -A WELDMENT
.X ± .1		SPEC	
1. BREAK ALL SHARP EDGES .015 x 45°		USED ON MODEL	
OR .015R		FIRE SCOUT	
2. DIMENSIONAL LIMITS APPLY AFTER		PLATING	
SCALE	1:2	DATE	8/10/2007
		SHEET 6 OF 11	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
3		CHANGED -7 OVERALL LENGTH FROM 15.915 MIN. AND ADDED TOLERANCE PER G.E.	12/2/2011	RJC	GE
3A		-7 CH'D DIMS WAS .120 IS (.120), WAS 1.50 IS (1.50), WAS 4.00 IS (4.00).	6/4/2014	DPD	RJC
5	15-0348	-7 CH'D DIMS WAS 7.958 IS 7.96, WAS (1.50) IS 1.50, WAS (4.00) IS 4.00, WAS (.120) IS .12, WAS 8-32 UNC ONE SIDE IS 8-32 UNC - 2B ∇ .13.	3/21/2016	DPD	JAG



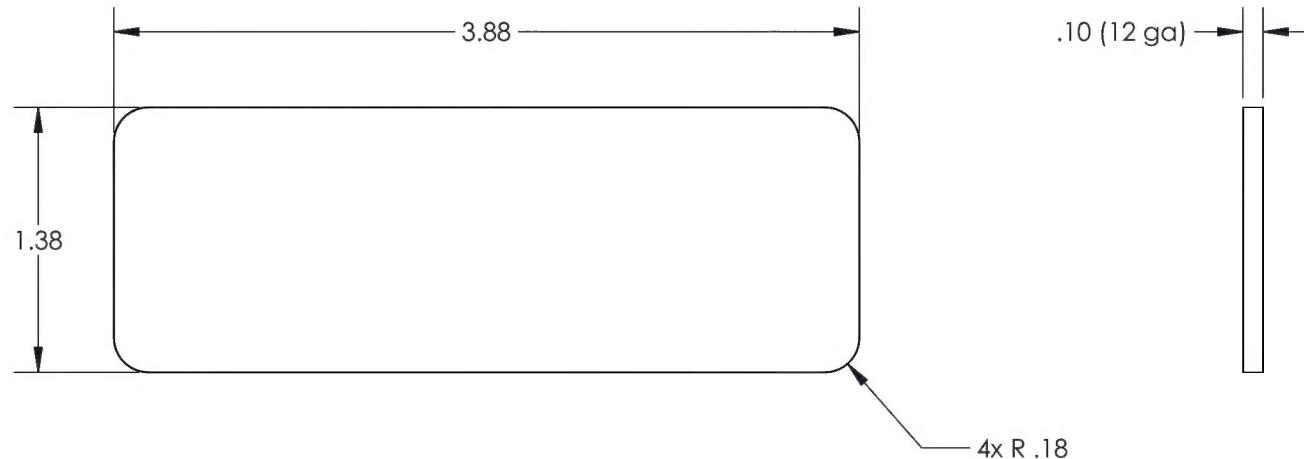
(-7)

REAR TUBE

DART AEROSPACE			
TITLE ENGINE REMOVAL ADAPTER			
DWG NO.	RBT18640-101-7		
MAT'L	STEEL TUBE	DRAWN BY:	PERRITT
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		APPROVED	D Weil
.XXX \pm .005	FRACTIONS \pm 1/8	HEAT TREAT	
.XX \pm .01	ANGLES \pm 5°	FINISH	SEE -A WELDMENT
X \pm .1		SPEC	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R		USED ON MODEL	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING		FIRE SCOUT	
SCALE	1:2	DATE	8/10/2007
		SHEET 7 OF 11	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
5	15-0348	-9 CH'D DIM WAS (.105 12ga) IS .10 (12ga).	3/22/2016	DPD	JAG



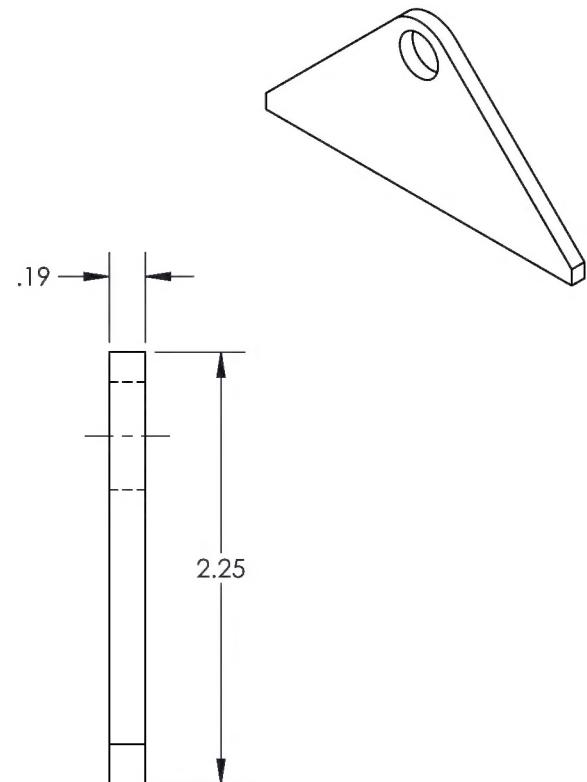
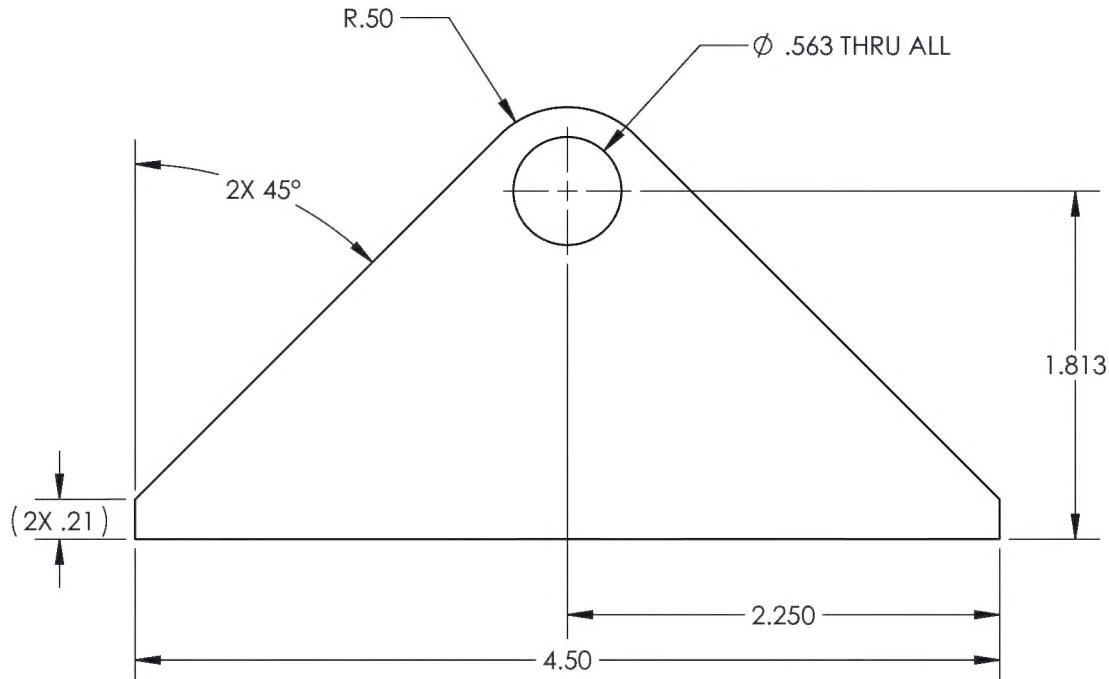
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END CAPS

DART AEROSPACE	
TITLE ENGINE REMOVAL ADAPTER	
DWG NO.	RBT18640-101-9
MAT'L	A709 GRADE 36
DRAWN BY:	PERRITT
APPROVED	D Weil
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
.XXX ± .005 FRACTIONS ± 1/8	
.XX ± .01 ANGLES ± 5°	
.X ± .1	
HEAT TREAT FINISH SEE -A WELDMENT	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
SPEC	
USED ON MODEL	
FIRE SCOUT	
SCALE	1:1
DATE	8/10/2007
SHEET 8 OF 11	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
3A		-25 CH'D DIM WAS .19 IS (.19).	6/4/2014	DPD	RJC
5	15-0348	-25 CH'D DIMS WAS 45° IS 2X 45°, WAS (.21) IS (2X .21), WAS (.19) IS .19.	3/22/2016	DPD	JAG

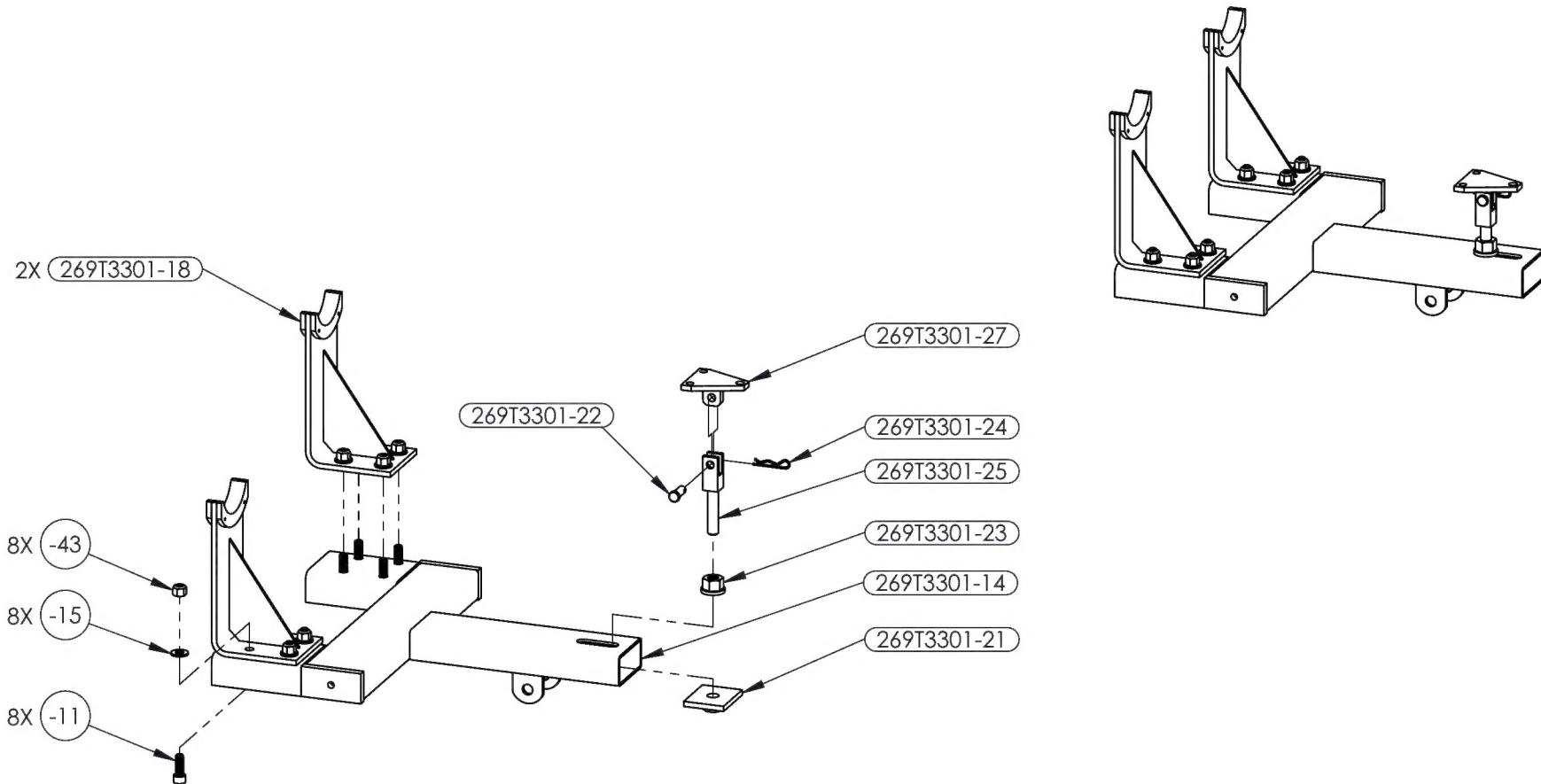


REAR TABS

DART AEROSPACE	
TITLE: ENGINE REMOVAL ADAPTER	
DWG NO.	RBT18640-101-25
MAT'L	A709 GRADE 36
DRAWN BY:	PERRITT
APPROVED	D Weil
UNLESS OTHERWISE SPECIFIED	
DIMENSIONS ARE IN INCHES	
.XXX ± .005 FRACTIONS ± 1/8	
.XX ± .01 ANGLES ± 5°	
.X ± .1	
HEAT TREAT SEE -A WELDMENT	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
SPEC	
USED ON MODEL	
FIRE SCOUT	
SCALE	1:1
DATE	8/10/2007
SHEET 9 OF 11	

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REV	ECR	REVISIONS	DESCRIPTION	DATE	INITIAL	APPROVED
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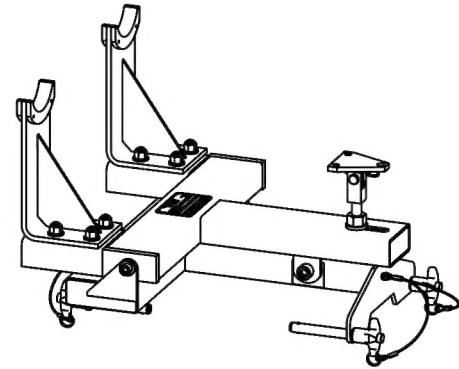
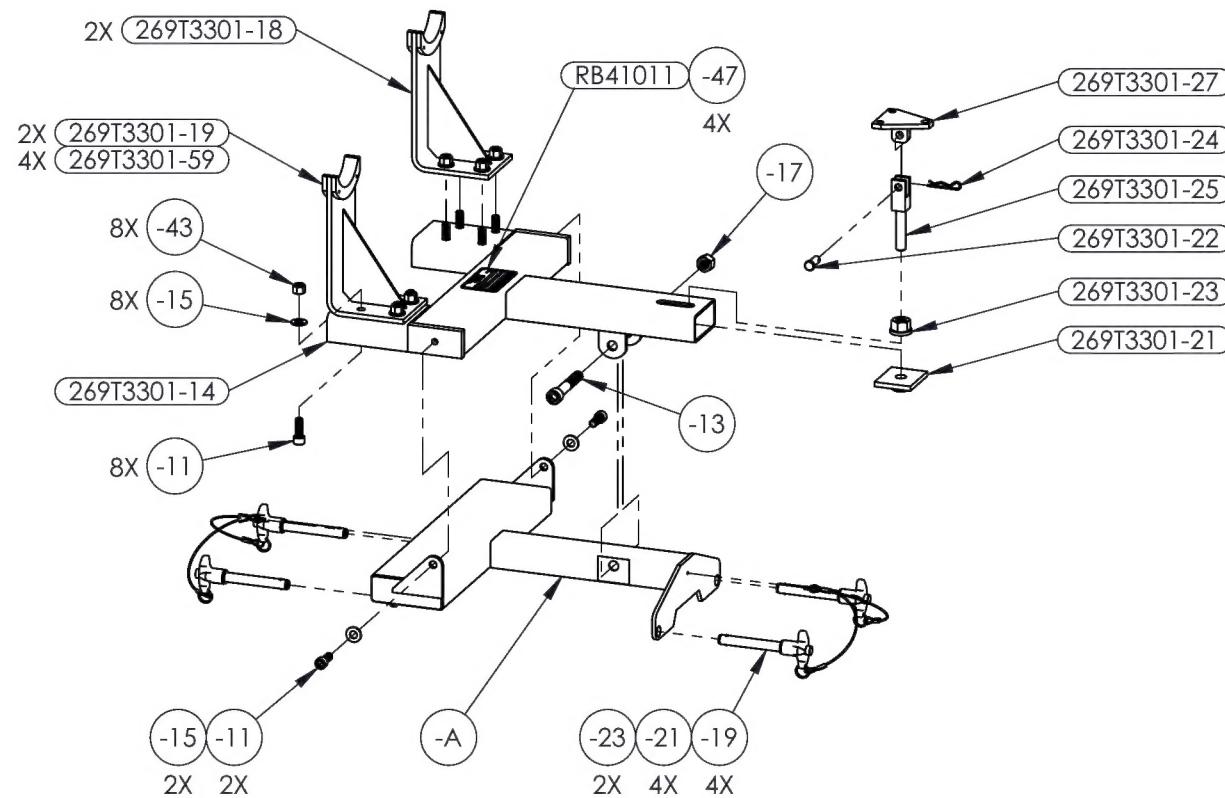


(-B)

UPPER ADAPTER ASSEMBLY

DART AEROSPACE	
TITLE	
ENGINE REMOVAL ADAPTER	
DWG NO.	RBT18640-101-B
REV	5
MAT'L	DRAWN BY: PERRITT
UNLESS OTHERWISE SPECIFIED	
DIMENSIONS ARE IN INCHES	
.XXX ± .005 FRACTIONS ± 1/8	
.XX ± .01 ANGLES ± 5°	
X ± .1	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
HEAT TREAT FINISH	
SPEC	
USED ON MODEL	
FIRE SCOUT	
SCALE	1:8
DATE	8/10/2007
SHEET 10 OF 11	

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Part #	UNIT QTY	Description
-A	1	BOTTOM ADAPTER ASSEMBLY
-11	10	S.H.C SCREWS 3/8-16 X 1
-13	1	S.H.C. SCREW 1/2-13 X 3-1/4
-15	10	WASHER Ø3/8
-17	1	NYLON INSERT LOCK NUT 1/2-13
-19	4	T-HANDLE QUICK RELEASE PINS Ø1/2 X 3
-21	4	LANYARDS W/ NYLON COATING Ø1/16 X 8
-23	2	BUTTON H.C. SCREWS 8-32 x 3/8
-43	8	NYLON INSERT NUTS 3/8-16
-47	4	#2 DRIVE SCREW
269T3301-14	1	CARRIAGE WELDMENT
269T3301-18	2	CRADLE ARM ASSEMBLY W/ CRADLE PADS
269T3301-19	2	CRADLE PADS FOR REPLACEMENT
269T3301-21	1	NUT PLATE WELDMENT
269T3301-22	1	CLEVIS PIN Ø3/8 X 1
269T3301-23	1	FLANGE NUT 1/2-13
269T3301-24	1	HAIR PIN
269T3301-25	1	STUD WELDMET
269T3301-27	1	FRONT ENGINE MOUNT WELDMET
269T3301-59	4	ROLL PIN Ø1/8 X 5/8 FOR REPLACEMENT
RB41011	1	DART PLACARD

DART
AEROSPACE

190 S. Danebo Ave., Eugene, OR. 97402
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TITLE		
DWG NO. RBT18640-101 REV 5 CUSTOMER 1 OF 1		
SCALE	1:10	DATE 8/10/2007 SHEET 11 OF 11

Part Number: RBT18640-101-P0

Work Order #: 203384

Type of Test:

Ultimate:

Operational:

Technician: ALAW PATRY

Date: 2020-01-21

Inspector: _____ DAS
68
0.80

Date: JAN 21 2020

Signed

Signed